

WHAT IS CLAIMED IS:

- 1           1.     A network infrastructure for supporting communications with  
2     mobile devices, comprising:  
3                 a communications network;  
4                 a mobile resources server coupled to the communications  
5     network;  
6                 a mobile resources proxy coupled to the communications  
7     network;  
8                 a mobile device coordinator coupled to the communications  
9     network;  
10                a security server coupled to the communications network; and  
11                a mobile device access point coupled to the communications  
12     network and configured for communications with mobile devices.
- 1           2.     The network infrastructure of claim 1, wherein the mobile  
2     resources server, mobile resources proxy, mobile device coordinator, and  
3     security server are all server functions provided by a single server computer.
- 1           3.     The network infrastructure of claim 1, wherein more than one  
2     of the mobile resources server, mobile resources proxy, mobile device  
3     coordinator, and security server are server functions provided by a single  
4     server computer.
- 1           4.     The network infrastructure of claim 1, wherein the  
2     communications network is a local area network (LAN).
- 1           5.     The network infrastructure of claim 1, wherein the  
2     communications network is a shopping area communications network.

1           6.     The network infrastructure of claim 1, further comprising:  
2                 a wireless access proxy configured to send and receive non  
3 internet protocol (IP) communications.

1           7.     The network infrastructure of claim 6, wherein the mobile  
2 device access point is configured to send and receive internet protocol (IP)  
3 communications.

1           8.     The network infrastructure of claim 6, wherein the wireless  
2 access proxy includes a wireless network interface.

1           9.     The network infrastructure of claim 8, wherein the wireless  
2 access proxy includes a request interpreter.

1           10.    The network infrastructure of claim 9, wherein the wireless  
2 access proxy includes an IP network interface.

1           11.    A communications system for communicating with mobile  
2 wireless devices, comprising:  
3                 a communications network;  
4                 a wireless device access point coupled to the communications  
5 network;  
6                 at least one mobile wireless device configured to communicate  
7 with the wireless access point when the mobile wireless device is within a  
8 communications range; and  
9                 a centralized management system configured to manage and  
10 control mobile device resources.

1           12. The communications network of claim 11, wherein the  
2 centralized management system includes a mobile resources server, a mobile  
3 resources proxy, a mobile device coordinator, and a security server.

1           13. The communications network of claim 11, wherein the  
2 centralized management system includes more than one of a mobile  
3 resources server, a mobile resources proxy, a mobile device coordinator, and  
4 a security server.

1           14. The communications network of claim 11, wherein the  
2 communications network is a local area network (LAN).

1           15. The communications network of claim 11, wherein the  
2 communications network is a shopping area communications network.

1           16. The communications network of claim 11, further comprising:  
2 a wireless access proxy configured to send and receive non  
3 internet protocol (IP) communications.

1           17. The communications network of claim 16, wherein the mobile  
2 device access point is configured to send and receive internet protocol (IP)  
3 communications.

1           18. The communications network of claim 16, wherein the wireless  
2 access proxy includes a wireless network interface.

1           19. The network infrastructure of claim 18, wherein the wireless  
2 access proxy includes a request interpreter.

1           20. The network infrastructure of claim 19, wherein the wireless  
2 access proxy includes an IP network interface.

1           21. A method of providing a web page to a mobile device using a  
2 Bluetooth wireless transceiver, comprising:  
3           establishing a wireless communications link with the mobile  
4 device;  
5           receiving a web page request from the mobile device;  
6           interpreting the request;  
7           sending the request to a mobile resources proxy that verifies the  
8 request with a security server and after verification retrieves the web page;  
9           receiving the web page from the mobile resources proxy; and  
10          sending the web page to the mobile device.

1           22. A method of providing a web page to a mobile device using an  
2 IEEE 802.11 wireless transceiver, comprising:  
3           establishing a wireless communications link with a local area  
4 network (LAN) access point;  
5           locating a mobile resources server;  
6           requesting a web proxy location;  
7           receiving web proxy location;  
8           requesting the web page through LAN access point and through  
9 mobile resource proxy; and  
10          receiving the web page from the mobile resources proxy.

1           23. A method of retrieving a web page by a mobile device using an  
2 IEEE 802.11 wireless transceiver, comprising:  
3           establishing a wireless communications link with a local area  
4 network (LAN) access point;  
5           requesting a web page via a network gateway;  
6           intercepting the request by a firewall;

7 sending the request by the firewall to a mobile resources proxy.  
8 verifying request by the mobile resources proxy using a mobile  
9 resources server;  
10 receiving the web page through the mobile resources proxy.

1 24. A method of providing a secure document to a mobile device  
2 using a Bluetooth transceiver, comprising:

3 establishing a wireless communications link with the mobile  
4 device;  
5 receiving a web page request from the mobile device;  
6 interpreting the request;  
7 sending the request to a mobile resources proxy;  
8 providing an authorization for to the mobile device;  
9 receiving authorization information from the mobile device;  
10 sending the authorization information to a mobile resources  
11 server that verifies the authorization information;  
12 receiving the web page from the mobile resources proxy; and  
13 sending the web page to the mobile device.

1 25. A method of providing location information to a mobile device,  
2 comprising:

3 receiving a location request from the mobile device;  
4 sending the request to a navigation service that requests the  
5 mobile device location from a mobile device coordinator and receives a  
6 current location from the mobile device coordinator;  
7 receiving a map from the navigation service, the map being  
8 developed by the navigation service based on the current location;  
9 sending the map to the mobile device.

- 1           26.   A method of providing a messaging service for a mobile device,
- 2   comprising:
- 3                receiving a registration message to a chat service;
- 4                determining if a message is to be sent to the mobile device;
- 5                locating the mobile device;
- 6                sending the message to an access point that is in
- 7   communications with the mobile device, the access point sending the
- 8   message to the mobile device.